# The

# Cane Growers' Quarterly -Bulletin-

### VOLUME V.

#### Contents.

					GE.
SHEEP GRAZING AT THE MACKAY EXPER	MENT STA	TION,	by D.		
McBryde					1
THE TREATMENT OF HORSES FOR WORMS .			* *		3
LIME SPREADING MACHINERY, by H. W. Ke					4
NEW SEEDLING VARIETIES			* *		6
RAT INVESTIGATIONS, by W. A. McDougall	* *				7
A CONVENIENT AND SIMPLE FIRE-STICK .					11
THE PRESENT SITUATION REGARDING THE					10
QUEENSLAND, by R. W. Mungomery .			5 ×	* *	12
A TRACTOR OPERATED BY SUCTION GAS, by					13
INEFFICIENCY OF THE PRESENT QUARANTIS					1~
Mungomery		* *			15
CANE GRUB SITUATION			* *	* *	16
APPROVED CANE VARIETIES AND EXPERIME					17
Laming Ratoon Crops		* *	**		17
by W. A. McDougall	KAY DISTR	ICT DU	ING 19	37,	18
FIELD DAY, BUNDABERG SUGAR EXPERIMEN	m Ominion				21
•				* *	28
TECHNICAL BULLETINS				* *	
CONFERENCE OF CANE PESTS BOARDS				* *	29
				* *	31
THE ROLE OF LEGUMES IN REJUVENATING O					32
TRANSPORTATION OF CAME FOR PLANTING I					35
REVIEW OF THE 1937 REPORT OF THE DIREC				NT	
STATIONS		* *	* *	* *	37
INSTRUCTOR IN CANE CULTURE		* 1	* *		43
LUPINS FOR WINTER COVER CROP, by N. J. i					44
EFFECT OF WINDS ON CANE GROWTH .					45
FIRST STEPS IN IRRIGATION PRACTICE, by I	I. W. Keri			* *	46
Drainage for Wireworms		* *			54
FIJI DISEASED CANE SHOULD BE DUG OUT	MMEDIATE	LY			55
FIELD DAY, MACKAY SUGAR EXPERIMENT S	STATION		* *		56
SUGAR CANE IN NEW GUINEA, by A. F. Bo	al •				64
INTENSIVE CANE PRODUCTION, by H. W. Ke	rr				67
SOOTY MOULD ON SUGAR CANE IN THE BABI					67
A NEW TRASH PLOUGH, by N. J. King					69
SEEDLING HOTHOUSE OF RUNDARING STATIO					71

Farm Fertility Trials, 1937 Season—			
INTRODUCTION			73
Northern District			76
V. CATALDO, Mourilyan			89
L. S. CHRISTENSEN, Edmonton			81
FOX AND COMPANY, Highleigh, Gordonvale			83
Hickling Bros., Alcomba			84
J. W. Horsford, Mourilyan			88
IVES Bros., Miallo, Mossman			77
J. P. KELLEHER, Tully			91
J. McCutcheon, Liverpool Creek, Innisfail			90
C. T. Nielsen, Bellenden Ker, Babinda			8.5
R. D. REX AND SONS, Mossman			78
C. Russell, Smithfield, Cairns		* *	79
SEE POY AND SONS, Goondi, Innisfail	* *		87
VESSEY AND SON, Edge Hill, Cairns			SO
R. J. WATTERS, Gordonvale			82
W. A. WILKINS, Mirriwinni, Babinda		* *	86
Burdekin District			92
J. Ahern, Airdale, Ayr			93
** ** **			96
C. HANSEN AND SONS, Ana Branch, Ayr			94
Hoey Bros., Pioneer, Ayr			95
R. D. Low, Jarvisfield, Ayr			97
			98
Mackay District	* *		99
S. H. AND H. T. HILL, Te Kowai, Mackay			
R. F. JARROTT, Branscombe, Mackay		* *	101
J. McGowan, Rosella, Mackay	* *		102
SUGAR EXPERIMENT STATION, Te Kowai, Mackay		* *	100
		* *	
Southern District			104
Douglas Bros., South Kalkie, Bundaberg			107
GIBSON AND HOWES, Bingera, Bundaberg			-111
Mrs. W. C. Newman, Oakwood, Bundaberg		* *	106
F. Read, off Barolin Road, Bundaberg	* *		10.5
Varietal Trials, 1937 Season—			
			110
		• •	113
R. E. BAUMGART, Island Plantation, Maryborough HAYWARD AND NIELSEN, Coolum, Maroochy Area		* *	150
· ·			123
	* *		116
R. P. MATTHEWS, Pawngilly, Babinda			
	• •	• •	118
		• •	114
	* *	110	115
J. Young, Burnett Heads Road, Bundaberg			121
		* *	
*THE FARMER VISITS THE SOIL CHEMIST, by H. W. Kerr			125

<sup>\*</sup> Reprinted by courtesy of the Queensland Society of Sugar Cane Technologists.

1 .			I	AGE.
A NOTE ON FODDER CROP EXPERIMENTS AT MERINGA	STATI	ON		134
FERTILIZER "BURN"	* *		* *	137
MOLASSES FOR FATTENING LAMBS				137
*Crop Rotation, with Special* Reference to the Green Manuring, by A. F. Bell			OF	138
WIREWORM DAMAGE IN MACKAY-1938 FORECAST				148
VARIETAL TRIAL				149
THE PROGRESS OF MULE BREEDING AT FAIRYMEAD, by	y W.	Grimes		149
THE PROBLEMS OF ARSENIC APPLICATIONS TO S Mungomery		4	W.	151
DWARF DISEASE IN P.O.J. 2878 AT MACKAY				153
SELECTION OF PLANTING MATERIAL IN THE MULGRAVE				153
THE NEW SEEDLING Q.2				154
*FURTHER NOTES ON SPRAY IRRIGATION, by H. W. K				155
THE USE OF CONCRETE IN FARM BUILDINGS	* *			162
VARIETY P.O.J. 2878 AND DOWNY MILDEW DISEASE				164
PERMITS FOR TRANSFER OF SUGAR-CANE PLANTS				164

## VOLUME VI.

#### Contents.

CANE GRUB CONTROL IN THE ISIS DISTRICT, by R. W. Mungomery	1
POONA PEA AS A GREEN MANURE CROP	2
CAME PESTS DESTRUCTION BOARDS, ANNUAL CONFERENCE	5
GRUB CONTROL IN THE BURDEKIN DISTRICT, 1937-38, by H. G. Knust	7
FRENCH'S CANE BEETLE, by J. H. Buzacott	8
THE BEETLE BORER, by J. H. Buzacott	9
	11
PROTECTING ROOFS OF FARM BUILDINGS	11
SHEEP GRAZING AND LAMB RAISING TRIALS AT MACKAY, by D. L.	
McBryde and H. W. Kerr	12
NUT GRASS ERADICATION	15
MOSAIC DISEASE OF SUGAR CANE, by C. W. Leece	16
CANE SAMPLES FOR TEST PURPOSES AT EXPERIMENT STATIONS	19
AN EXPERIMENT IN SOAKING OF CANE PLANTS, by N. J. King	19
NEED FOR LIME ON ACID SOILS	21
	21
SPECIAL PERTILIZER MIXTURES FOR SUGAR CANE, by H. W. Kerr	23
BUNDABERG FIELD DAY-ADDRESS BY H. W. KERR	25
P.O.J. 2878 IN SOUTHERN QUEENSLAND—CAN IT BE RETAINED? by A. F.	
Bell	27
DOWNY MILDEW DISEASE, by A. F. Bell	30
SOIL AND PLANT INTERRELATIONSHIPS AS DEMONSTRATED BY SOIL	
ANALYSIS, by C. R. Von Stieglitz	33
A NEW SPECIES OF LEGUME	3.5

<sup>•</sup> Reprinted by courtesy of the Queensland Society of Sugar Cane Technologists.

•			1	AGE.
Notes on Rat Baits, Rat Poisons, and Rat Popul McDougall				36
THE WORK OF SCHOOL PROJECT CLUBS				38
THE "ELECTRIC" FENCER				39
THE USE OF LIME ON CANE LANDS, by H. W. Kerr		Bates		40
THE AGRICULTURAL VALUE OF ROTARY FILTER AND S				
II. W. Kerr and C. R. von Stieglitz		K MUD		43
SUGAR DISPLAY AT THE BRISBANE SHOW				46
SOME FACTORS INFLUENCING CANE PRODUCTION, by	H. W.	Kerr		18
RUBBER TYRES FOR FARM MACHINERY, by H. W. Ke.	rr	* *		55
DOWNY MILDEW IN SOUTHERN QUEENSLAND				59
•				
Varietal Trials				60
Brie Brie Estate, Mossman				60
Mrs. W. A. Johnston, Mossman '				61
J. B. Anderson, Edmonton				61
				62
	* *			62
	* *		* *	62
Messrs Gadaloff Bros., Aloomba		* *		63
Messrs Suner and Sons, South Johnstone			* *	
R. G. OWEN JONES, South Johnstone				64
G. F. Hudson, Mourilyan	* *		* *	6.5
J. H. McCutcheon, Mourilyan				65
INTRODUCTION OF CAME VARIETIES FROM OVERSEAS,	by Art	hur F.	Bell	666
Annual Report of the Director for the Year 1 1938			UNE,	70
NEW ZEALAND BLUE LUPIN AS A WINTER LEGUME, I			and	
D. R. L. Steindl		, ixing		90
Farm Fertility Trials, 1938 Season-				
		**		93
				-
Northern District				95
Ives Bros., Miallo, Mossman				96
Vessey and Son, Edge Hill, Cairns				97
L. S. Christensen, Edmonton				98
FCX AND COMPANY, Highleigh, Gordonvale			* *	99
J. McCutcheon, Liverpool Creek, Innisfail			* *	100
V. Cataldo, Mourilyan				101
J. P. KELLEHER, Tully				102
Burdekin District				103
J. Ahern, Airedale, Ayr				104
J. STOCKDALE, Down River, Home Hill				105
Mackay District Rosier and Simpson, Homebush Road, Mac	o e	* *		106
RUSIER AND SIMPSON, HOMEDUSE ROad, Mac	скау			107

			P	AGE.
Southern District				109
C. M. Jensen, South Kolan, Bundaberg				110
F. READ, off Barolin Road, Bundaberg				111
W. Loeskow, Gooburrum, Bundaberg				112
T. H. Chappell, South Isis, Childers				113
J. H. BRAND, Huxley, Childers				114
H. H. AND A. G. OWEN, Paynter's Creek, Nat	nbour	1.1		115
Miscellaneous Fertility Trials				116
		**		117
E. H. REBBEIN, Duneraggan Road, Bundaberg				118
Messrs, Wendland and Sons, Bidwell, Mary	boroug	h		119
MAGNESIUM SULPHATE EXPERIMENTS				120
MOLASSES TRIAL		* *		121
FILTER MUD TRIAL				122
Varietal Trials, 1938 Season—				
Northern District				123
Messes, Vessey and Son, Edge Hill, Cairns				123
P. S. SIMMONDS, Wright's Creek, Edmonton				124
E. Sufs, Gordonvale				125
Messes, E. M. and C. H. Bennett, Alcomba				126
ESTATE OF C. RYAN, Daradgee, Innisfail				127
Messrs, McRobbie and Son, Mundoo, Innisfa				128
D. BECCARIS, Mourilyan				129
G. G. BARNETT. Euramo, Tully				129
Mackay District			× *	131
J. J. HAND, Wundaru, Farleigh	* *	* *		132
J. Trevaskis, Farleigh				132
Messes, Bezzini Bros, and Zammit, Eimeo Re		ackay	* *	133
E. N. IWERS, Cliftonville, via Sarina			* *	133
Southern District		. x		134
WINDERMERE PLANTATION, Bundaberg			134	135
H. A. ILETT, Apple Tree Creek, Childers				136
*Some Agricultural Problems of the Lower Burd	EKIN	DISTRI	CT,	
by H. W. Kerr				137
		OVERSE	CAS	142
THE ELIMINATION OF GUMMING SUSCEPTIBLE CANE VA			ME	
BUNDABERG AREA			* *	145
SUGAR CANE IN HAWAH AND THE UNITED STATES, by N	orman	King		146
Mosaic in S.J. 2				185
Approved Varieties				186
PROSECUTIONS FOR NON-COMPLIANCE WITH ORDERS I DESTRUCTION OF DISEASED CANE	SSUED	FOR T	HE	188
CANE DISEASE INFESTED AREAS				188
RED STRIPE (TOP ROT) DISEASE IN 1939				189

• Reprinted by courtesy of the Queensland Society of Sugar Cane Technologists.

#### GENERAL INDEX.

			I	AGE
DAMAGE TO CANE SOILS BY ARSENIC			 	189
Effects of Downy Mildew at Mackay			 4.0	196
THE VARIETY Q. 20 IN THE MACKAY AREA			 	190
CANE AND TRACTOR SCHOOL AT THE QUEENSLA SCHOOL AND COLLEGE, by C. G. Story				
"THE SUGAR EXPERIMENT STATIONS ACTS, 19	00 TO	1938 * *	 	196

